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SM

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. |
|-----------------|-------------|----------------------|---------------------|
| 08/841,318      | 04/30/97    | HATAKEYAMA           | K 1259-0191P-S      |

LM02/1208  
BIRCH STEWART KOLASCH AND BIRCH  
PO BOX 747  
FALLS CHURCH VA 22040-0747

|                       |              |
|-----------------------|--------------|
| EXAMINER              |              |
| FERGUSON, E           |              |
| ART UNIT              | PAPER NUMBER |
| 2714                  | 6            |
| DATE MAILED: 12/08/98 |              |

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner of Patents and Trademarks**

# Office Action Summary

Application No.

08/841,318

Applicant(s)

Kouki Hatakeyama

Examiner

Eric Ferguson

Group Art Unit

2714

☒ Responsive to communication(s) filed on Apr 30, 1997

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

## Disposition of Claims

☒ Claim(s) 1-6 is/are pending in the application.

Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

☐ Claim(s) \_\_\_\_\_ is/are allowed.

☒ Claim(s) 1-6 is/are rejected.

☐ Claim(s) \_\_\_\_\_ is/are objected to.

☐ Claims \_\_\_\_\_ are subject to restriction or election requirement.

## Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on \_\_\_\_\_ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☒ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been

☒ received.

☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

☒ Notice of References Cited, PTO-892

☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). 2

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

☒ Copy of Status Letter

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

## DETAILED ACTION

### *Title*

1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
2. The following title is suggested: A Method of Controlling the Display Mode and the Recording Mode of an Electronic Still Camera.

### *Drawings*

3. Figure 4 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g).

### *Specification*

4. The disclosure is objected to because of the following informalities:
  - There is a missing word between the words “up” and “image” on line 4 on page 1.
  - Replace the word “photographic” on line 21 of page 1.
  - The phrase “color light” on line 6 of page 2 is unclear. ☞
  - There is a missing word between the words “of” and “pixel” on line 5 of page 11. ☞
  - There are missing words between the words “invention” and “pick” on line 3 of page 16.Appropriate correction is required.

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claim 1, 2, 3, and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sasaki (4,837,628) in view of Yokoyama (5,239,380) in further view of Morimura et al. (4,570,178) in further view of Miyazaki (4,929,824) in further view of Parulski et al. (5,828,406).

A. Considering claim 1, Sasaki discloses all the claimed subject matter, note: 1) the claimed electronic still camera is met by line 7-10 in column 1, 2) the claimed electronic view finder is met by element 30 in figure 2 and line 66 in column 3, 3) the claimed recording medium is met by element 15 in figure 2, 4) the claimed shutter release is met by the abstract, except 1) the claimed image field addition steps, 2) the claimed color filter, 3) the claimed automatic exposure mechanism, and 4) the claimed sequential scanning.

B. Yokoyama discloses the claimed image field addition steps in the abstract, figure 11, lines 19-30 in column 1, and lines 40-56 in column 3. Morimura et al. discloses the claimed color filters in lines 5-13 in column 5. Miyazaki discloses the claimed automatic exposure mechanism in lines 32-48 in column 7. Parulski et al. discloses the claimed sequential scanning lines 1-2 in column 6.

C. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify Sasaki's electronic still camera with; Yokoyama's image field addition techniques, Morimura et al.'s color filters, the automatic exposure mechanism of Miyazaki, and the sequential scanning of Parulski et al.

D. The motivation for modifying Sasaki's electronic still camera with the Yokoyama's image field addition techniques would have been to allow interlace scanning of the solid state imaging device in the display mode. This modification would have been obvious because combining pixels to obtain a field image signal for the purpose of allowing the full frame reading of the solid state imaging device is known in the art. Yokoyama teaches this on lines 19-31 in column 7. The motivation for modifying Sasaki's electronic still camera with Morimura et al.'s color filters would have been to eliminate optical crosstalk. This modification would have been obvious because using a color filters to produce a color signal is known in the art. Morimura et al. teaches this on lines 5-13 in column 5. The motivation for modifying Sasaki's manual exposure with Miyazaki's automatic exposure mechanism would have been to reduce user error. This modification would have been obvious because manual exposure is prone to user error. Miyazaki teaches this on lines 54-60 in column 1. The motivation for modifying Sasaki's electronic still camera with the sequential scanning of Parulski et al. would have been to attain the higher resolution that is needed to display still pictures. This modification would have been obvious because using sequential scanning to fulfill the resolution requirements of a still picture is known in the art. Parulski et al. teaches this on lines 63-67 in column 6 and lines 1-2 in column 7.

E. Therefore, it would have been obvious to modify Sasaki's electronic still camera with; Yokoyama's image field addition techniques, Morimura et al.'s color filters, the automatic exposure mechanism of Miyazaki, and the sequential scanning of Parulski et al.

F. Considering claim 2, Miyazaki discloses the claimed change in exposure value on lines 48-56 in column 7.

G. Considering claim 3, Parulski et al. discloses a longer image readout period for still mode operation than motion preview mode in the second to the last sentence in the abstract.

H. Considering claim 4, Parulski et al. discloses the claimed amplifier on lines 52-55 in column 3, and element 32 in figure 2.

7. Claims 5, and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sasaki (4,837,628) in view of Yokoyama (5,239,380) in further view of Morimura et al. (4,570,178) in further view of Miyazaki (4,929,824) in further view of Parulski et al. (5,828,406).

A. Considering claim <sup>5</sup>~~7~~, Sasaki discloses all the claimed subject matter, note: 1) the claimed electronic still camera is met by line 7-10 in column 1, 2) the claimed electronic view finder is met by element 30 in figure 2 and line 66 in column 3, 3) the claimed recording medium is met by element 15 in figure 2, 4) the claimed shutter release is met by the abstract, except 1) the claimed charge storage time, 2) the claimed image field addition steps, 3) the claimed color filter, 4) the claimed interlaced scanning, 6) the claimed automatic exposure mechanism, and 7) the claimed

sequential scanning.

B. Yokoyama discloses the claimed image field addition steps in the abstract, figure 11, lines 19-30 in column 1, and lines 40-56 in column 3. Morimura et al. discloses the claimed color filters in lines 5-13 in column 5. Miyazaki discloses the claimed charge storage time and automatic exposure mechanism in lines 32-48 in column 7. Parulski et al. discloses the claimed sequential scanning lines 1-2 in column 6 and the claimed interlaced scanning in lines 56-60 in column 1.

C. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to modify Sasaki's electronic still camera with; Yokoyama's image field addition techniques, Morimura et al.'s color filters, the automatic exposure mechanism of Miyazaki, and the sequential scanning and interlacing of Parulski et al.

D. The motivation for modifying Sasaki's electronic still camera with the Yokoyama's image field addition techniques would have been to allow interlace scanning of the solid state imaging device in the display mode. This modification would have been obvious because combining pixels to obtain a field image signal for the purpose of allowing the full frame reading of the solid state imaging device is known in the art. Yokoyama teaches this on lines 19-31 in column 7. The motivation for modifying Sasaki's electronic still camera with Morimura et al.'s color filters would have been to eliminate optical crosstalk. This modification would have been obvious because using a color filters to produce a color signal is known in the art. Morimura et al. teaches this on lines 5-13 in column 5. The motivation for modifying Sasaki's manual exposure with

Miyazaki's automatic exposure mechanism, in which the camera's operation is based on charge storage time, would have been to reduce user error. This modification would have been obvious because manual exposure is prone to user error. Miyazki teaches this on lines 54-60 in column 1. The motivation for modifying Sasaki's electronic still camera with the sequential scanning and interlacing of Parulski et al. would have been to attain the higher resolution that is needed to display still pictures. This modification would have been obvious because using sequential scanning and interlacing to fulfill the resolution requirements of a still picture is known in the art. Parulski et al. teaches this on lines 63-67 in column 6 and lines 1-2 in column 7.

E. Therefore, it would have been obvious to modify Sasaki's electronic still camera with; Yokoyama's image field addition techniques, Morimura et al.'s color filters, the automatic exposure mechanism of Miyazaki, and the sequential scanning and interlacing of Parulski et al..

F. Considering claim 6, Parulski et al. discloses the claimed relationship between the charge storage times in the second to last sentence of the abstract.



*Conclusion*

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Ferguson whose telephone number is (703) 305 - 0150. The examiner can normally be reached on Monday through Friday from 8:00 a.m. to 4:00 p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Peng, can be reached on (703) 305 - 4702.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

**or faxed to:**

(703) 308-9051, (for formal communications intended for entry)

**Or:**

(703) 308 - 9052 (for informal or draft communications, please label

"PROPOSED" or "DRAFT")


Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305 - 3900.

Eric Ferguson

E. F.

December 6, 1998

  
Wendy Garber  
Supervisory Patent Examiner  
Technology Center 2700

# 4

PATENT J. E. f  
1259-SP191P 5/15/

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Kouki HATAKEYAMA

Serial No.: 08/841,318

Group: 2602

Filed: April 30, 1997

Examiner: unassigned

For 210 MAY 07 1998 CONTROLLING METHOD FOR ELECTRONIC STILL CAMERA

STATUS INQUIRY

Assistant Commissioner for Patents  
Washington, D.C. 20231

May , 1998

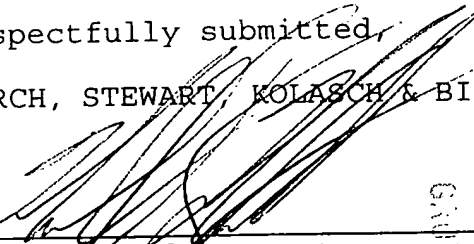
Sir:

Please advise the undersigned as to the status of the above-identified application as follows:

A duplicate copy of the present Status Inquiry is attached hereto. It is respectfully requested that the duplicate copy be marked appropriately to indicate the status of the above-identified application and returned to the undersigned as soon as possible.

Please call Michael K. Mutter, Reg. No. 29,680, at 703-205-8000 if there are any questions with regard to the present request.

Respectfully submitted,  
BIRCH, STEWART, KOLASCH & BIRCH, LLP

By   
Michael K. Mutter  
Reg. No. 29,680  
P.O. Box 747  
Falls Church, VA 22040-0747  
(703) 205-8000

GROUP 2602  
117-3  
RECEIVED

- ☒ Awaiting Action from Patent Office Examiner: \_\_\_\_\_
- \_\_\_\_\_ Awaiting Decision by Board of Appeals.
- \_\_\_\_\_ Application allowed on \_\_\_\_\_
- \_\_\_\_\_ Abandoned per \_\_\_\_\_
- \_\_\_\_\_ Other \_\_\_\_\_